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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/534,192	03/24/2000	MASAHIRO MINOWA	P4986a	2002

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EPSON RESEARCH AND DEVELOPMENT INC
INTELLECTUAL PROPERTY DEPT
150 RIVER OAKS PARKWAY, SUITE 225
SAN JOSE, CA 95134

EXAMINER

EBRAHIMI DEHKORDY, SAEID

ART UNIT	PAPER NUMBER
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2626

DATE MAILED: 06/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/534,192

Applicant(s)

MINOWA ET AL.

Examiner

Saeid Ebrahimi-dehKordy

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-10, 15-20 and 26-32 is/are allowed.
- 6) ☒ Claim(s) 1-4, 11-14 and 21-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Response to Arguments

1. Applicant's arguments with respect to claim 1-4, 11-14 and 21-25 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4, 11-14 and 21-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyasaka et al (U.S. patent 6,697,678)

Regarding claim 1, 11 and 21 Miyasaka et al disclose: A printer controller (please note column 9 lines 63-67 where the computer 61 acts as the printer controller for transmitting commands and data over the interface to the printer) comprising: an evaluating unit that detects a specific data sequence in a send data stream sent to a printer (please note column 9 lines 63-64 and column 10 lines 1-29)) a generating unit responsive to the evaluating unit detecting the specific data sequence in the send data stream that divides the send data stream into a plurality of data stream segments not containing the specific data sequence (please note column 6 lines 16-26) the plurality of data stream segments functioning the same as the send data stream (column 10 lines 9-17)) and a sending unit responsive to the evaluating unit that sends one of the send

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data stream and the plurality of data stream segments to the printer based on the detection result of the evaluating unit (please note column 10 lines 1-8).

Regarding claim 2,12 and 22 Miyasaka et al disclose: The printer- controller as in claim 1, wherein: the send data stream and each of the plurality of data stream segments have a header and a parameter block: and the generating unit generates a header for each of the plurality of data stream segments that is the same as the header of the send data stream (please note column 23 lines 30-36).

Regarding claim 3,13 and 23 Miyasaka et al disclose: The printer controller as in claim 2, wherein: the generating unit generates a parameter block for each data stream segment according to the number of segments generated from the send data stream (please note column 20 lines 55-63 and column 21 lines3-8).

Regarding claim 4,14,24 Miyasaka et al disclose: The printer controller as in claim 1, wherein: the specific data sequence is a data sequence of a real-time command of a printer (please note column 10 lines 1-29)

Regarding claim 25 Miyasaka et al disclose: The data storage medium as in claim 21, wherein the data storage medium comprises one of a compact disc, floppy disc, hard disk, magneto-optical disk, digital video disk, magnetic tape, and semiconductor memory (please note column 10 lines 17-29).

Allowable Subject Matter

4. Claim 5-10,15-20 and 26-32 are allowed.

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The response ^{filed on} ~~filed~~ of March 15 2004 by the applicant over comes the previous rejection of the claims above please note the page 3 lines 7-26, inserting dummy data into the print data sequence in accordance with the determination result.

Contact Information

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Saeid Ebrahimi-Dehkordy* whose telephone number is (703) 306-3487.

The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams, can be reached at (703) 305-4863.

Any response to this action should be mailed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

Or faxed to:

(703) 872-9306, or (703) 308-9052 (for **formal** communications; please mark
"EXPEDITED PROCEDURE")

Or:

(703) 306-5406 (for **informal** or **draft** communications, please label
"PROPOSED" or "DRAFT")

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 305-4750.

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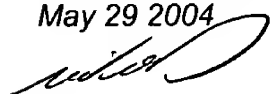
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Saeid Ebrahimi-Dehkordy

Patent Examiner

Group Art Unit 2626

May 29 2004



KA Williams
KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER